

**IN THE CLAIMS:**

Please CANCEL claims 6-21, without prejudice or disclaimer.

Please AMEND the claims and ADD new claims in accordance with the following:

1. (Currently Amended) An optical apparatus for bidirectional optical communication comprising:

an optical transmission section that configured to generate a signal light in accordance with a data signal inputted to a data input port, to thereby transmit the signal light as a ~~outputs a~~ transmitted light;

an optical reception section that configured to receive a light is inputted thereto and with a received light having whose a wavelength is different from that of the transmitted light from said optical transmission section, to thereby regenerate said light inputted thereto as a data signal to be outputted from a data output port;

an apparatus, ~~which includes~~ including therein an optical isolator, and configured to output ~~outputting the a~~ light inputted thereto, via by way of said optical isolator;

a first optical component, ~~which includes~~ including a first port, a second port and through a third ports, and configured to allow ~~outputting the a~~ light inputted to said first port to output from said third port, and to ~~outputting allow the a~~ light inputted to said second port to output from said first port;

a second optical component configured to ~~multiplexing~~ the transmitted light output from said optical transmission section with the light outputted from by said ~~the~~ third port of said first optical component, to thereby output the multiplexed light into said apparatus; and

a third optical component configured to ~~separating~~ separate the light outputted from by said optical isolator of said apparatus into separate lights in ~~according accordance to with a~~ wavelength difference, to thereby allow ~~output~~ the separated lights to output toward the second port of said first optical component and toward to said optical reception section, respectively.

2. (Original) An optical apparatus according to claim 1,  
wherein

said second optical component includes a plurality of demultiplexing side ports respectively corresponding to optical signals of a plurality of wavelengths contained in the transmitted light output from said optical transmission section, and a plurality of demultiplexing side ports respectively corresponding to optical signals of a plurality of wavelengths contained in the light output from the third port of said first optical component.

3. (Original) An optical apparatus according to claim 1, further comprising;  
a supervisory control section that controls at least one of said optical transmission section, said optical reception section and said apparatus, based on at least one of operational states of said optical transmission section, said optical reception section and said apparatus.

4. (Original) An optical apparatus according to claim 1,  
wherein  
said transmitted light and said received light each contains a plurality of optical signals of different wavelengths, and  
said first optical component, said second optical component, and said third optical component each has; a plurality of demultiplexing side ports respectively corresponding to wavelengths of a plurality of optical signals contained in said transmitted light, a plurality of demultiplexing side ports respectively corresponding to wavelengths of a plurality of optical signals contained in said received light, and one multiplexing side port.

5. (Original) A node apparatus including a plurality of optical input-output ports connected with an optical transmission path which propagates a plurality of optical signals of different wavelengths bidirectionally, for performing the switching of optical signals respectively input to and output from said plurality of optical input-output ports,

wherein

a plurality of optical apparatuses in claim 1 is provided respectively corresponding to said plurality of optical input-output ports, and the first ports of the first optical components of said plurality of optical apparatuses are connected with corresponding optical input-output ports, and

there is provided a switch circuit capable of arbitrarily switching connections between transmission data input ports of the optical transmission sections and receiving data output ports of the optical reception sections of said plurality of optical apparatuses.

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (New) An optical apparatus for bidirectional optical communication comprising:
  - an optical transmission section that outputs a transmitted light;
  - an optical reception that inputs a received light with a wavelength different from that of the transmitted light;
  - an apparatus, including therein an optical isolator, and configured to output a light inputted thereto, by way of said optical isolator;
  - a first optical component, including a first port, a second port and a third port, and

configured to allow a light inputted to said first port to output from said third port, and to allow a light inputted to said second port to output from said first port;

a second optical component configured to multiplex the transmitted light output from said optical transmission section with the light outputted by said third port of said first optical component, to thereby output the multiplexed light into said apparatus; and

a third optical component configured to separate the light outputted by said optical isolator of said apparatus into separate lights in accordance with a wavelength difference, to thereby allow the separated lights to output toward the second port of said first optical component and toward to said optical reception section, respectively, and

wherein

said second optical component includes a plurality of demultiplexing side ports respectively corresponding to optical signals of a plurality of wavelengths contained in the transmitted light output from said optical transmission section, and a plurality of demultiplexing side ports respectively corresponding to optical signals of a plurality of wavelengths contained in the light output from the third port of said first optical component.

23. (New) An optical apparatus for bidirectional optical communication comprising:

an optical transmission section that outputs a transmitted light;

an optical reception that inputs a received light with a wavelength different from that of the transmitted light;

an apparatus, including therein an optical isolator, and configured to output a light inputted thereto, by way of said optical isolator;

a first optical component, including a first port, a second port and a third port, and configured to allow a light inputted to said first port to output from said third port, and to allow a light inputted to said second port to output from said first port;

a second optical component configured to multiplex the transmitted light output from said optical transmission section with the light outputted by said third port of said first optical component, to thereby output the multiplexed light into said apparatus; and

a third optical component configured to separate the light outputted by said optical isolator of said apparatus into separate lights in accordance with a wavelength difference, to thereby allow the separated lights to output toward the second port of said first optical component and toward to said optical reception section, respectively, and

wherein

said transmitted light and said received light each contains a plurality of optical signals of different wavelengths, and

said first optical component, said second optical component, and said third optical component each has; a plurality of demultiplexing side ports respectively corresponding to wavelengths of a plurality of optical signals contained in said transmitted light, a plurality of demultiplexing side ports respectively corresponding to wavelengths of a plurality of optical signals contained in said received light, and one multiplexing side port.

24. (New) A node apparatus including a plurality of optical input-output ports connected with an optical transmission path which propagates a plurality of optical signals of different wavelengths bidirectionally, for performing the switching of optical signals respectively input to and output from said plurality of optical input-output ports, wherein

a plurality of optical apparatuses for bidirectional optical communication are provided, each optical apparatus comprising

an optical transmission section configured to generate a signal light in accordance with a data signal inputted to a data input port, to thereby transmit the signal light as a transmitted light,

an optical reception section configured to receive a light inputted thereto and having a wavelength different from that of the transmitted light from said optical transmission section, to thereby regenerate said light inputted thereto as a data signal to be outputted from a data output port,

an apparatus, including therein an optical isolator, and configured to output a light inputted thereto, by way of said optical isolator,

a first optical component, including a first port, a second port and a third port, and configured to allow a light inputted to said first port to output from said third port, and to allow a light inputted to said second port to output from said first port,

a second optical component configured to multiplex the transmitted light output from said optical transmission section with the light outputted by said third port of said first optical component, to thereby output the multiplexed light into said apparatus, and

a third optical component configured to separate the light outputted by said optical isolator of said apparatus into separate lights in accordance with a wavelength difference, to thereby allow the separated lights to output toward the second port of said first optical component and toward said optical reception section, respectively;

the plurality of optical apparatuses respectively correspond to said plurality of

optical input-output ports, and the first ports of the first optical components of said plurality of optical apparatuses are connected with corresponding optical input-output ports, and

a switch circuit capable of arbitrarily switching connections between transmission data input ports of the optical transmission sections and receiving data output ports of the optical reception sections of said plurality of optical apparatuses.